Docket No.: 06181/0207506-US0

Application No. 10/574,264 Amendment dated March 17, 2010 After Final Office Action of November 17, 2009

AMENDMENTS TO THE CLAIMS

 (Previously presented): A method for fabricating a hollow diamond shell with geometrical shape, comprising:

preparing a matrix with a geometrical shape;

pretreating the matrix by using diamond powder agents in an ultra-sonic bath to incite nucleation of diamond on the matrix while blocking a zone on the surface of the matrix from the diamond powder agents;

synthesizing a diamond film on the matrix by CVD process to form a diamond/matrix composite, said composite being partially uncoated with the diamond film to have an opening site corresponding to the zone; and

etching the matrix of the composite partially uncoated with the diamond film through the opening site to obtain a hollow diamond shell.

- 2. (Previously presented): The method of claim 1, wherein the size of the matrix is in the range between 200 nm and 2 mm in the longest length.
- (Original): The method of claim 1, further comprising the step of applying vibrations to a plate on which the matrix is placed, to let the matrix move and rotate.
- (Previously presented): The method of claim 1, wherein the matrix has a spherical shape.
- 5. (Previously presented): The method of claim 1, wherein an opening on the matrix is formed by attaching glue tapes during the pretreatment.
- (Previously presented): The method of claim 1, wherein the diamond film formed on the matrix has a (100) prevailing surface or nanocrystaline morphology.

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 (Original): A hollow diamond shell with a geometrical figure fabricated by the method of claim 1.

8. (Withdrawn): A method for fabricating diamond particles, comprising:

preparing a matrix with a geometrical shape;

synthesizing diamond particles on the matrix by CVD process to form a diamond/matrix composite and then stopping the diamond deposition before film formation; and

etching the matrix to obtain the diamond particles.

9. (Withdrawn): The method of claim 8, wherein each size of the diamond particles is in the range between 10 nm and $100 \text{ }\mu\text{m}$.